part 210, § 210.10 (c) and (d), Group IV (age 9 and older) and, when possible, the recommended quantities for children 12 and older.

13. In § 225.18:

a. Paragraph (e) is amended by removing the word "law" and adding in its place the word "laws".

b. Paragraph (g) is amended by adding the word "or," before the words "if such" the second time they appear.

c. A new paragraph, (i), is added. The addition specified above reads as follows:

§ 225.18 Miscellaneous administrative provisions.

(i) Special retroactivity provisions. Notwithstanding any other provisions contained in this part, the following shall apply:

(1) State agencies shall provide reimbursement as set forth in § 225.9(d)(10) of this part, for meal service provided by any academic-year NYSP sponsor between October 1, 1989 and the date of the Fiscal Year 1990 academic-year Program agreement between the State agency and the

academic year NYSP sponsor under the following conditions, provided that:

(i) The sponsor can document, for any meals claimed that:

(A) The NYSP site participated in the Program during the 1989 SFSP or, if the site did not participate in the 1989 SFSP, free meal applications are on file to document the site's eligibility during the Fiscal Year 1990 academic-year phase of the SFSP;

(B) Meal counts by type (breakfast, lunch, supplement, and supper) are available;

· (C) Food service revenue and expenditure records are sufficient to support the claim for reimbursement;

(D) Program reimbursement does not duplicate other funding for the same meals;

(E) The meals claimed for reimbursement met the requirements of the appropriate meal patterns set forth at § 225.16(e) of this part in terms of items and quantities served; and

(ii) The Fiscal Year 1990 academicyear Program agreement between the State agency and the academic-year NYSP sponsor is executed no later than 90 days after the publication of the 1990 Program regulations; and any claims for reimbursement for meals served

between October 1, 1989 and the date of said Program agreement are grouped by month and are received by the State agency no later than 30 days after the execution of the State-sponsor agreement or the date established by § 225.9(d)(5), whichever date is later.

§ 225.19 [Amended]

14. In § 225.19:

a. Paragraph (a) is amended by removing the word "State" and adding in its place the word "States".

b. Paragraph (b) is amended by removing the words "Puerto Rio" and adding in their place the words "Puerto Rico" and by removing the word "Agriculuture" and adding in its place the word "Agriculture".

c. Paragraph (c) is amended by removing the words "1100 Spring Street, NW., Atlanta, GA 30367" and adding in their place the words "77 Forsyth Street, SW, Suite 112, Atlanta, GA 30303".

d. Paragraph (g) is amended by removing the word "North" and adding in its place the word "Northern".

Dated: April 4, 1990. Betty Jo Nelsen. Administrator. [FR Doc. 90-8171 Filed 4-5-90; 9:49 am] BILLING CODE 3410-30-M



Tuesday April 10, 1990

Part VI

Department of Transportation

Federal Aviation Administration

14 CFR Part 25

Improved Structural Requirements for Pressurized Cabins and Compartments in Transport Category Airplanes; Final Rule

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 25

[Docket No. 25567, Amdt. No. 25-71]

RIN 2120-AC44

Improved Structural Requirements for Pressurized Cabins and Compartments In Transport Category Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT. ACTION: Final rule.

SUMMARY: This amendment upgrades the airworthiness requirements for pressurized compartments on transport category airplanes by (1) amending the criteria for evaluation of the secondary effects caused by openings in the pressure vessel, and (2) extending the area of consideration to include openings anywhere in any pressurized compartment. There are no changes to the sizes of the openings that must be considered. This amendment is a result of recent service experience and is intended to make the pressurized compartment load requirements less design-dependent and more objective. It requires evaluation of openings in any pressurized compartment and examination of the effects of differential pressure loads on any critical structure inside or outside the pressurized compartment.

EFFECTIVE DATE: May 10, 1990.

FOR FURTHER INFORMATION CONTACT: James Haynes, Airframe and Propulsion Branch (ANM-112), Transport Airplane Directorate, Aircraft Certification Service, FAA, 17900 Pacific Highway South, C-68966, Seattle, Washington 98168; telephone (206) 431-2113.

SUPPLEMENTARY INFORMATION:

Background

This amendment is based on Notice of Proposed Rulemaking (NPRM) No. 88–5, which was published in the Federal Register on March 16, 1988 (53 FR 8742). The notice proposed to upgrade the requirements concerning pressurized cabin and compartment design loads by requiring that the specified openings for rapid decompression evalution be considered in all compartments of the pressure vessel and that the effects of the differential pressure load be considered for any structure inside or outside the pressure vessel.

As discussed in the notice, § 25.365
"Pressurized cabin loads" was revised
by Amendment 25–54 (effective October
14, 1980) to include a new requirement
for the structural evaluation of the

effects of rapid depressurization resulting from a specific size opening in the fuselage. This requirement was initially prompted by a transport airplane accident in which a failed door resulted in decompression and collapse of the floor with subsequent jamming of the flight controls and loss of the airplane. This accident raised concerns regarding the reliability of outward opening doors and the potential harm to the airplane from openings that may occur in the pressure vessel from a variety of causes including the detonation of bombs, mid-air collisions, and maintenance and production errors. These concerns resulted in proposal number 1051 of the Biennial Airworthiness Review of 1974-1975 which, in turn, resulted in the issuance of NPRM No. 75-31 (40 FR 29410; July 11,

In NPRM No. 75-31, the FAA proposed to amend the transport category airplane airworthiness standards to prevent floor failure, or any structural failure that would prevent continued safe flight and landing caused by the sudden release of pressure through an opening in any compartment at any approved operating altitude. This would have been accomplished by considering openings from bomb detonations, nonplug door failures, engine disintegrations, bird strikes, and any other eventualities. However, in the rule that was eventually adopted (Amendment 25-54; effective October 14, 1980), the requirement to consider compartment openings was limited to those openings caused by engine disintegration and other airplane or equipment failures. To account for other openings, the rule prescribed an opening of a computed size (based on a formula) in the passenger and cargo compartments. The evaluation of the effects was limited to partitions, floors and bulkheads within the pressurized

The final rule adopted in 1980 (Amendment 25-54) addressed the original concerns by: (1) Revising § 25.783, "Doors," to improve the standards for doors to the point that the failure of an outward-opening door was considered extremely improbable; and (2) requiring designs that prevent the collapse of floors and bulkheads in the event of an opening of a specific size in passenger and cargo compartments. The size of that opening was based on a formula involving the maximum crosssectional area of the fuselage; however, the rule did not require the consideration of a size greater than 20 square feet.

The changes made to § 25.783 in 1980 were considered to have adequately

addressed the occurrence of fuselage openings resulting from the opening of large doors; and the changes to § 25.365 were considered to have provided protection against the secondary effects of decompression resulting from other causes of fuselage openings. Although these changes were principally prompted by concerns over fuselage openings caused by the detonation of bombs during pressurized flight, the computed opening was considered large enough to cover other conceivable causes of fuselage openings. These included openings caused by structural failure resulting from corrosion, failure of rotating machinery, and errors in maintenance, production or operation.

The intent of the proposed change to § 25.365(e) in NPRM No. 75-31 was to provide some level of protection for the critical systems and components from the effects of decompression in the event of a fuselage opening that in itself may not cause the loss of the airplane. As adopted, the rule required an airplane to be designed to prevent the failure of floors and bulkheads in the event of an opening of a specified size. The physiological effects of decompression on the crew and passengers and the loss of structural integrity at the opening location, were not addressed in NPRM No. 75-31 or the resulting Amendment 25-54.

Section 25.365(e), as revised by
Amendment 25–54, required that an
airplane be designed to prevent the
failure of floors, bulkheads and
partitions that could result from a
computed opening in any pressurized
passenger or cargo compartment. The
location of the computed opening was
limited to these areas because they were
considered the most likely locations for

a bomb.

A requirement similar to that of § 25.365(e), as revised by Amendment 25–54, had already been issued in the form of an airworthiness directive (AD 75–15–05, Amendment 39–2262; 40 FR 29269; July 11, 1975) and made applicable to all wide body airplanes. This airworthiness directive resulted in the strengthening of the floors and in provisions for additional ventilation between compartments. It appears that the benefits of these requirements were realized in 1984 when a Boeing 747 airplane survived a 40 square foot opening from a bomb detonation.

Additional service experience since adoption of Amendment 25–54 indicates that the venting of pressure into normally unpressurized areas can cause secondary structural damage which in turn can lead to failure of critical flight control systems and components.

Furthermore, experience shows that all compartments of the airplane are subject to potentially survivable openings resulting from bomb detonation or the other events cited in NPRM No. 75–31.

In NPRM No. 88-5, the FAA proposed to upgrade the requirements to consider design loads on any structure, inside or outside the pressurized compartments, resulting from decompression through specified openings in any compartment. The proposal addressed only the secondary effects of the decompression loads on any structure and required each structure to withstand the loads if the failure of the structure could interfere with safe flight and landing. All effects on systems, equipment, or other structural components resulting from the secondary structural failures were to be evaluated.

A special requirement was provided for very small compartments where the required opening of the proposed § 25.365(e)(2) could not reasonably be expected to be confined to the small compartment. Instead of the computed opening, an opening of the maximum size expected to remain confined in the small compartment would be considered in the small compartment. As a separate condition, the small compartment would then be combined with an adjacent pressurized compartment and both considered as a single compartment for the maximum size opening specified by the formula. The cockpit would not be considered a small compartment for the purposes of the proposal.

Discussion of Comments

Comments were received from foreign and domestic airplane manufacturers, foreign government agencies, airplane operators and organizations representing pilots and flight engineers. The overwhelming majority of the commenters indicate support for the proposed changes, while some recommend additional or more stringent requirements and a few oppose certain provisions of the proposed rule. Many commenters recommend editorial, organizational, and clarifying comments which would result in a more understandable regulation.

Several commenters recommend that proposed § 25.365(h) be incorporated into new § 25.365(e) to simplify and improve the organization of the requirements. The FAA agrees, and the provisions of proposed paragraph (h) are incorporated into paragraph (e). Section 25.365(e) now applies to any structure, component, or part inside and outside the pressurized compartments. At the same time, the specific references to 'bulkheads, floors, and partitions' in

paragraph (e) are retained and moved from paragraph (e) to paragraph (g) to clarify the passenger protection aspects related to failure of these specific structures in occupied compartments regardless of whether the failure of these structures would interfere with safe flight and landing. Paragraph (g) is the more appropriate paragraph in which to address this concern since it already addresses the need for passenger protection from injury caused by the detachment of other parts under decompression conditions.

One commenter suggests that the reference to "any structure" might not be interpreted consistently to include components and supports for systems. To clarify that the rule applies to all structures that can be exposed to depressurization loads, including components and supports for systems, new § 25.365(e) now refers to "any structure, component, or part." The intent is to require that any structure, component, and part, the failure of which could interfere with continued safe flight and landing, be designed to withstand the differential pressure loads resulting from the release of pressure through openings in pressurized compartments. The evaluation includes not only the failure of the structure. component, or part, but also any subsequent failures that could result from the failure of that structure, component or part.

Several commenters recommend that the wording be revised to clarify that the loads resulting from the decompression events are ultimate load conditions. The FAA agrees and changes have been made to paragraph (f) to allow the resulting differential pressure loads to be considered as ultimate loads, provided that any resulting deformation does not interfere with continued safe flight and landing.

Several commenters suggest that the word "compartment" be used instead of "cabin" unless occupied compartments are intended. The FAA agrees, and changes have been made to the proposed paragraphs as well as to the title and other paragraphs of the rule to be consistent in the use of the word "compartment."

One commenter points out that the environmental qualification requirements for equipment that could be flight critical allow 15 seconds for decompression, while the current requirement as well as that in § 25.365 could result in a much shorter time interval. The commenter suggests that consideration be given to improving the equipment qualification standards for critical flight equipment. This would be beyond the scope of this rulemaking:

however, the FAA is addressing this concern in separate actions.

One commenter proposes that, in view of the IAL accident of 1985, the FAA consider increasing the upper limit on the computed opening size set forth by the formula in § 25.365(e)(2). The commenter provided no information that would indicate that the depressurization criteria provided by this rule would have been ineffective in preventing that accident. The computed opening defined in § 25.365(e)(2), with the 20 square foot maximum limit, is considered adequate for current and future designs, and to increase the maximum size of this opening would be beyond the scope of the proposals. Furthermore, there are other opening criteria provided by the rule which have no maximum limit. The computed opening established by § 25.365(e)(2) is intended to require consideration of a minimum size opening regardless of the opening sizes derived from specified failure conditions. Sections 25.365(e)(1) and 25.365(e)(3) require the consideration of other openings which could result from airplane, engine, and equipment failures regardless of the size of those openings.

The same commenter also recommended expanding the scope of the rule to include consideration of the primary effects of the opening in the external hull. The FAA agrees that some consideration of the primary effects of openings may have merit as it relates to protection of systems from major structural damage. Government and industry studies regarding the protection of systems from major structural damage are currently being conducted and may result in additional rulemaking action. However, the intent of § 25.365(e), as revised by this amendment, is to establish differential pressure design loads. It addresses only the secondary effects of decompression loading conditions on other structures. components and parts regardless of where they may be located on the

One commenter suggests that in some circumstances flight loads imposed by decompression emergency conditions should be combined with the resulting differential pressure loads, provided that they could exist simultaneously. The FAA agrees, and paragraph (f) has been clarified to indicate that any differential pressure loads be combined with the loads arising from decompression emergency procedures in a rational and conservative manner.

One commenter opposes the inclusion of the cockpit as a compartment where the opening of § 25.365(e)(2) of the proposal is to be considered, since the

cockpit size on wide-body airplanes may not be proportional to fuselage size. The commenter suggests that separate criteria should be established for the cockpit. The FAA does not agree since the intent of the requirement is to establish structural design loads resulting from specified openings in the pressure vessel. The applicability of the decompression criteria to a specific compartment should not be determined by the use of that compartment as a cockpit. In addition, § 25.365(e)(2) already establishes a 20 square foot upper limit on the size of the computed opening, which can be feasible and potentially survivable for the cockpit of wide-body transports.

Only one commenter suggests that extending the computed opening to the cockpit might result in some economic impact. However, that commenter provides no data to support his claim. All other commenters, which include representatives of all U.S. manufacturers and operators, support the FAA contention that there would be no significant cost associated with this change.

Another commenter believes that openings in the center wing box should not be required since an opening at this location would cause immediate loss of the airplane. The FAA disagrees. The formula for the opening size results in opening areas proportional to airplane size that might reasonably be expected without loss of sufficient load carrying capability in the wing. Furthermore, the proposed § 25.365(e)(2) was not intended to address the primary effects of the opening (loss of strength, fuel leakage, fire hazard, etc.).

Regulatory Evaluation

Benefit-Cost Analysis

This regulatory evaluation examines the cost and benefit aspects of the final rule to establish improved structural requirements for pressurized cabins and compartments in transport category airplanes. The rule amends part 25 of the Federal Aviation Regulations (FAR). It will require evaluation of openings in any pressurized compartment and examination of the effects of differential pressure loads on any critical structure inside or outside of the pressurized cabin.

The rule is a result of an FAA review of the pressurized cabin load requirements.

The rule potentially impacts U.S. and foreign manufacturers that sell newly type certificated transport category airplanes in the U.S.

Costs

The FAA estimates the incremental cost of compliance that is expected to accrue from implementation of the rule to be minor. This assessment is based largely on information received from industry sources. According to the industry sources, the Japan Airlines (JAL) Flight 123 accident, which occurred in Japan in 1985 and represents one of the most tragic in aviation history, prompted increased world-wide safety awareness. This awareness, coupled with an anticipation of FAA rulemaking action related to the subject accident, provided most of the impetus behind the voluntary adoption of structural changes similar to those that will be required by this rule by manufacturers of transport category airplanes (including those designed expressly for executive transportation). Manufacturers of these airplanes reviewed their existing and future designs for possible flaws similar to those believed to have contributed to the JAL Flight 123 accident in 1985. Appropriate structural changes were made to some airplanes in the design stage and to some airplanes currently in use by operators. For these reasons, the FAA believes compliance with the rule will not impose any significant additional costs on manufacturers of transport category airplanes.

The belief that manufacturers of transport category airplanes will not incur significant costs as a result of this final rule has been reinforced by the fact that the FAA did not receive any negative comments from U.S. manufacturers or operators. The sole negative comment from a foreign manufacturer was not supported by cost

data.

Benefits

The potential benefits of the rule represent the prevention of casualty losses (fatalities and to a lesser extent property damage) that would be expected to occur if the standards of this rule were not adopted.

Based largely on information received from industry sources, the FAA expects the rule to ensure that a sufficient level of safety will be maintained with openings of up to 20 square feet in size anywhere within the pressurized fuselages of transport airplanes. This effort will be accomplished by assuring that the current high level of voluntary measures continues with respect to newly type certificated aircraft. As a result of the voluntary measures, there is an unlikely chance of an accident occurring, which would be due to openings in the pressurized fuselages of

transport airplanes, over the next 10 or more years. If, however, the rule were not adopted and newly type certificated transport category airplanes did not enjoy the level of safety presently achieved by voluntary measures, a number of aviation accidents involving such airplanes might occur over the next 10 years. Conservative monetary estimates of at least one of those accidents would amount to either a uniform stream of \$13.8 million annually or a cumulative \$85.4 million discounted at 10 percent over the next 10 years, in 1988 dollars, starting in 1990. These estimates are based on the occurrence of only one accident because it is not known how many accidents would occur over the next 10 years. Nevertheless, it is almost certain that at least one would occur.

Comparison of Costs and Benefits

This area of the evaluation summary presents a comparison of costs and benefits that could accrue over a period of 10 years as the result of implementation of this rule. The potential benefits of this rule are derived from the requirement that industry continue its current practices of addressing the problems identified in this rule and taking appropriate actions. This will greatly reduce the potential for the occurrence of an accident similar to or worse than the IAL Flight 123 disaster. Minimum benefits of \$13.8 million annually or \$85.4 million cumulative could be realized over the next ten years.

The costs associated with this rule are estimated to be minor since manufacturers have taken the initiative to implement most of the design changes necessary to meet the requirements contained in the rule. The FAA, therefore, considers this rulemaking action to be cost-beneficial.

The Regulatory Evaluation that has been placed in the Rule Docket contains additional information related to the costs and benefits that are expected to accrue from the implementation of this

Final Regulatory Flexibility Determination

The Regulatory Flexibility Act of 1980 (RFA) was enacted by Congress to ensure that small entities are not unnecessarily and disproportionately burdened by government regulations. The Act requires agencies to review rules which may have "a significant economic impact on a substantial number of small entities." Since the Act applies to U.S. entities, only U.S. manufacturers and operators of

transport category airplanes would be affected.

In the United States, there are two manufacturers that specialize in commercial transport category airplanes, The Boeing Company and McDonnell Douglas Corporation. In addition, there are others that specialize in the manufacture of other transport category airplanes, such as those designed for executive transportation. These are Cessna Aircraft Corporation, Beech Aircraft Corporation, Gulfstream Corporation and Gates Learjet Corporation.

The FAA size threshold for a determination of a small entity for U.S. airplane manufacturers is 75 employees; any manufacturer with more than 75 employees is considered not to be a small entity. Because none of the U.S. manufacturers of transport category airplanes is a small entity, this rule has no impact on any manufacturer that is a "small entity."

Because this rule does not have a "significant economic impact on a substantial number of small entities," no review is required in this regard by the Act.

International Trade Impact Assessment

This rule is not expected to have an adverse impact on the trade opportunities of either U.S. manufacturers of transport category airplanes doing business abroad or foreign aircraft manufacturers doing business in the United States. Since the certification rules are applicable to both foreign and domestic manufacturers, which sell their products in the United States, there will be no competitive trade advantage to either.

Federalism Implications

The regulations adopted herein would not have substantial direct effects on the states, on the relationship between the national government and the states, or on the distribution of power and responsibilities among the various levels of government. Therefore, in accordance with Executive Order 12612, it is determined that this final rule will not warrant the preparation of a Federalism Assessment.

Conclusion

Because amending the structural requirements for pressurized compartments on transport category airplanes is not expected to result in a substantial cost, the FAA has determined that this amendment is not

major as defined in Executive Order 12291. For the same reason, this amendment is not considered to be significant as defined in Department of Transportation Regulatory Policies and Procedures (44 FR 11034; February 26, 1979). In addition, since there are no small entities affected by this rulemaking, it is certified, under the criteria of the regulatory Flexibility Act, that this amendment will not have a significant economic impact, positive or negative, on a substantial number of small entities. A copy of the regulatory evaluation prepared for this project may be examined in the Rules Docket or obtained from the person identified under the caption FOR FURTHER INFORMATION CONTACT.

List of Subjects in 14 CFR Part 25

Air transportation, Aircraft, Aviation safety, Safety.

Adoption of the Amendment

Accordingly, part 25 of the Federal Aviation Regulations (FAR) 14 CFR part 25, is amended as follows:

PART 25—AIRWORTHINESS STANDARDS: TRANSPORT CATEGORY AIRPLANES

1. The authority citation for part 25 continues to read as follows:

Authority: 49 U.S.C. 1344, 1354(a), 1355, 1421, 1423, 1424, 1425, 1428, 1429, 1430; 49 U.S.C. 106(g) (Revised Pub L. 97–449, January 12, 1983). 49 CFR 1.47(a).

· 2. Amend § 25.365, by revising the introductory paragraph and by revising paragraphs (c), (e), (f) and (g) to read as follows.

§ 25.365 Pressurized compartment loads.

For airplanes with one or more pressurized compartments the following apply:

(c) If landings may be made with the compartment pressurized, landing loads must be combined with pressure differential loads from zero up to the maximum allowed during landing.

(e) Any structure, component or part, inside or outside a pressurized compartment, the failure of which could interfere with continued safe flight and landing, must be designed to withstand the effects of a sudden release of pressure through an opening in any compartment at any operating altitude resulting from each of the following conditions:

 The penetration of the compartment by a portion of an engine following an engine disintegration;

(2) Any opening in any pressurized compartment up to the size H_o in square feet; however, small compartments may be combined with an adjacent pressurized compartment and both considered as a single compartment for openings that cannot reasonably be expected to be confined to the small compartment. The size H_o must be computed by the following formula:

H_o=PA_s where.

H_o=Maximum opening in square feet, need not exceed 20 square feet.

$$p = \frac{A_a}{6240} + .024$$

A_s=Maximum cross-sectional area of the pressurized shell normal to the longitudinal axis, in square feet; and

(3) The maximum opening caused by airplane or equipment failures not shown to be extremely improbable.

(f) In complying with paragraph (e) of this section, the fail-safe features of the design may be considered in determining the probability of failure or penetration and probable size of openings, provided that possible improper operation of closure devices and inadvertent door openings are also considered. Furthermore, the resulting differential pressure loads must be combined in a rational and conservative manner with 1-g level flight loads and any loads arising from emergency depressurization conditions. These loads may be considered as ultimate conditions; however, any deformations associated with these conditions must not interfere with continued safe flight and landing. The pressure relief provided by intercompartment venting may also be considered.

(g) Bulkheads, floors, and partitions in pressurized compartments for occupants must be designed to withstand the conditions specified in paragraph (e) of this section. In addition, reasonable design precautions must be taken to minimize the probability of parts becoming detached and injuring occupants while in their seats.

Issued in Washington DC, on April 2, 1990.

James B. Busey,

Administrator.

[FR Doc. 90-8190 Filed 4-9-90; 8:45 am]

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Tuesday April 10, 1990

Part VII

Environmental Protection Agency

40 CFR Part 61
NESHAPS for Radionuclides
Reconsideration; Phosphogypsum;
Proposed Rule and Notice of Limited
Reconsideration of Final Rule and
Determination of Compliance Waiver



ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 61

[FRL 3753-7]

NESHAPS for Radionuclides Reconsideration; Phosphogypsum

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice of limited reconsideration of final rule and determination of compliance waiver.

SUMMARY: Today's action announces the limited reconsideration by EPA of the portion of 40 CFR part 61, subpart R, National Emission Standards for Hazardous Air Pollutants, Radon **Emissions from Phosphogypsum Stacks** (54 FR 51654 December 15, 1989) that requires disposal of phosphogypsum in stacks or mines, thereby precluding alternative uses of the material. In light of this reconsideration and other factors described herein, EPA is also granting a limited compliance waiver that permits the continued agricultural use of phosphogypsum through the current growing season. EPA is establishing a 60-day comment period to receive information relating to the limited reconsideration. In this issue of the Federal Register, EPA is also noticing several proposed alternatives that address the subject matter of this limited reconsideration. (See the proposed rule printed elsewhere in this issue). A public hearing on these issues will be held.

DATES: Effective date: March 15, 1990.
The public hearing will be held on
May 3 and 4, 1990. Written requests to
present comments at the hearing must
be submitted by April 25, 1990.

ADDRESSES: The hearing will be held at the Inforum Conference Center located at 205 Williams Street in Atlanta, GA.

Comments and requests to speak at the hearing should be submitted (in triplicate if possible) to the Central Docket (A–130), Environmental Protection Agency, Attention: Docket No. A–79–11, Washington, DC 20460. The docket may be inspected between the hours of 8 a.m. and 3 p.m. on weekdays. A reasonable fee may be charged for document copying.

FOR FURTHER INFORMATION CONTACT: Craig Conklin, Environmental Standards Branch, Criteria and Standards Division (ANR-460), Office of Radiation Programs, Environmental Protection Agency, Washington, DC 20460, (202) 475-9610.

SUPPLEMENTARY INFORMATION:

A. Background

On October 31, 1989, EPA promulgated (54 FR 51653 December 15, 1989), pursuant to its authority under section 112 of the Clean Air Act (the "Act"), 42 U.S.C. 7412, National **Emission Standards for Hazardous Air** Pollutants ("NESHAPs") controlling radionuclide emissions to the outdoor air from the following source categories: DOE Facilities, Licensees of the Nuclear Regulatory Commission and Non-DOE Federal Facilities, Uranium Fuel Cycle Facilities, Elemental Phosphorus Plants, Phosphogypsum Stacks, Underground Uranium Mines and the operation and disposal of Uranium Mill Tailings Piles. This action was undertaken pursuant to a voluntary remand and a schedule issued by the U.S. Court of Appeals for the D.C. Circuit in light of its earlier ruling in NRDC, Inc. v. EPA, 824 F.2d 1146 (D.C. Cir. 1987) (the "Vinyl Chloride" decision) which articulated requirements for standard-setting under section 112 of the Act.

The Vinyl Chloride decision set forth a decisionmaking framework for NESHAPs by which the Administrator exercises his judgment under section 112 in two steps: first, determine a "safe" or "acceptable" level of risk considering only health-related factors, and second, set a standard that provides an "ample margin of safety," in which costs, feasibility, and other relevant factors in addition to health may be considered but which is at least as stringent as the "safe" level. After proposing and receiving comments on several options by which to define "safe", the Administrator selected an approach, first announced in the final NESHAPs for certain benzene source categories (54 FR 38044 September 14, 1989) which created a presumption of acceptability for a risk level of approximately one in ten thousand to the maximum exposed individual, and a goal to protect the greatest number of persons possible to a lifetime risk level no higher than approximately one in one million. After evaluating existing emissions against this benchmark, other risk information is then considered and a final decision is made about what risk is acceptable. The Agency then considers other information in addition to the healthrelated factors and establishes the final NESHAP at the level which protects public health with an ample margin of safety.

B. The NESHAP for Radon Emissions From Phosphogypsum Stacks or Mines

Phosphogypsum is waste or any other form of byproduct that results from wet acid phosphorus production. Because phosphate ore contains a relatively high concentration of uranium and radium, phosphogypsum also contains these elements. Phosphogypsum, once created, is most typically disposed of in large (multi-acre) stacks or in the mines from which the phosphate ore was originally extracted.

During the rulemaking that resulted in promulgation on October 31, 1989, of the final 40 CFR part 61, subpart R, NESHAP for radon emissions from phosphogypsum, EPA performed a pileby-pile risk assessment of radon releases from 58 phosphogypsum stacks located at 41 different facilities. The Final Phosphogypsum NESHAP is the product of application by the Administrator of the two part decisionmaking process articulated by the D.C. Circuit in the Vinyl Chloride decision. as summarized in part A above. Specifically, EPA decided that in order to control the dispersion of phosphogypsum and resultant release of radon gas to ambient air, the phosphogypsum, once created, must be disposed in stacks or mines. The radon emissions from these stacks or mines are limited to a level of 20 pCi/m2-s. The portion of the rule mandating disposal reflects the EPA's concern that the radium-bearing phosphogypsum waste, if diffused throughout the country, would present a public health threat from radon gas emissions that would continue for generations given radium's 1630-year half-life, and that it would be impracticable for EPA to implement its regulation of such numerous and diffuse sources.

Because the phosphogypsum NESHAP, 40 CFR part 61, subpart R, was published on December 15, 1989, it became effective for existing facilities on March 15, 1990. Clean Air Act section 112(c)(1)(B)(i), 42 U.S.C. 7412(c)(B)(i). Individual facilities that are unable to achieve compliance at this time may apply to EPA, pursuant to 40 CFR parts 61.10-61.11, for a waiver permitting such facility a period of up to two years after March 15, 1990 to comply. In deciding whether to grant such waiver, EPA considers, among other things, the past practices of the facility, the ability of the facility to comply, the necessity for a waiver, and whether the waiver would present an imminent endangerment to public health. Owners or operators of phosphogypsum that desire a waiver and meet these criteria are invited to apply to the EPA Regional Office in which the phosphogypsum is or will be located. However, for owners or operators of phosphogypsum engaged in the sale and use of phosphogypsum solely for agricultural purposes, for the

current growing season individual waivers are not necessary as EPA is today granting a limited class waiver for that purpose. This class waiver is further discussed in part E below.

C. Industry Petitions

EPA has received petitions from The Fertilizer Institute ("TFI"), Consolidated Minerals, Inc. ("CMI"), and U.S. Gypsum Co. ("USG") to reconsider the portion of the phosphogypsum NESHAP, 40 CFR part 61, subpart R, which requires disposal into stacks or mines of all phosphogypsum thereby preventing alternative uses of the material. In pertinent part, TFI contends that this provision (1) was adopted without proper notice and comment, (2) is contrary to the national policy favoring recycling and reuse of secondary materials, (3) effectively prevents any amount, no matter how small, from being used in the research and development of beneficial uses of the material, (4) is unnecessary because certain uses of phosphogypsum such as mixing with soil as a calcium replenisher does not cause significant risks, and (5) will cause irreparable harm to thousands of farmers.

CMI adds that this portion of the phosphogypsum NESHAP is arbitrary and capricious because it prevents the use or sale of any of the phosphogypsum produced by their particular industrial process. In particular, because their phosphate ore treatment method allegedly reduces the radium concentration in much of the resultant phosphogypsum such that "safe" levels of radon gas emissions to ambient air are ensured, CMI contends that EPA's prohibition on alternative use is

unreasonable.

U.S. Gypsum's petition is consistent with CMI's in that it supports the phosphogypsum NESHAP only insofar as it pertains to untreated phosphogypsum; therefore, phosphogypsum that is treated so as to achieve "safe" levels of radium (the material that ultimately results in radon gas emissions to ambient air) should be allowed for agricultural use. USG believes that because there are safer alternative products available in the agricultural gypsum market that are economically viable, and because the technology to treat phosphogypsum is also available and viable, the alternative use of untreated phosphogypsum was properly prohibited by the NESHAP. Therefore, reconsideration is requested as to the ban on use of treated phosphogypsum and, additionally, to allow research and development of phosphogypsum purification technologies.

D. Notice of Limited Reconsideration

In accordance with section 307(d)(7)(B) of the Clean Air Act, 42 U.S.C. 7607(d)(7)(B), EPA is granting limited reconsideration of the portion of the phosphogypsum NESHAP, 40 CFR part 61, subpart R, which requires disposal of phosphogypsum in stacks or mines. Although the Agency has concluded that several of the issues raised by the petitioners merit reconsideration, EPA does not agree with all of the arguments or assertions raised. For example, EPA believes that its proposal, published at 54 FR 9612, et seq. (March 7, 1989), which included explicit regulatory language requiring that phosphogypsum be disposed in stacks or mines (implicitly prohibiting alternative uses), provided adequate public notice for the final rule. Indeed, comments from both industry and environmental groups on this very issue were submitted to EPA in response to that proposal. Nevertheless, reconsideration will afford an additional opportunity for public comment.

EPA is granting limited reconsideration in order to receive more information on the following: (1) the specific types of proposed alternative uses of phosphogypsum; (2) the current or anticipated feasibility of those alternative uses; (3) the research and development of processes which remove radium from phosphogypsum; (4) the health risks associated with either research and development or alternative uses; (5) the availability, cost, and effectiveness of substitutes for phosphogypsum; and (6) the proper definition of "phosphogypsum" in terms of its origin and its radium content. No comments that exceed the scope of these subjects will be considered by EPA.

E. Limited Class Waiver for Agricultural Use

Pursuant to the Agency's authority under Clean Air Act section 112(c)(1)(B)(ii), 42 U.S.C. 7412(c)(1)(B)(ii), and 40 CFR parts 61.10-61.11, a limited waiver from compliance with the work practice portion of the phosphogypsum NESHAP, 40 CFR part 61, subpart R, is hereby granted for those owners or operators engaged in the distribution or use of phosphogypsum for agricultural purposes for the duration of the current growing season. This limited waiver is based upon the finding of the Administrator that such activity presents no imminent endangerment to public health, that the immediate prohibition of such use would cause great injury to many small farmers who rely upon phosphogypsum, and that it

would be burdensome and impracticable to issue limited waivers to each affected owner or operator, and it is made in light of the scope of the simultaneously granted limited reconsideration of the phosphogypsum NESHAP. This limited waiver further recognizes that the requirement to dispose of phosphogypsum in stacks or mines does not require emissions control equipment but instead requires conversion to alternative means of soil conditioning. The limited waiver is necessary to allow time for arranging the purchase and implementation of new materials and practices.

The durational limitation to this growing season recognizes that the timing for application of phosphogypsum varies from farm to farm, crop to crop, and thus allows phosphogypsum application to fields through this growing season, even if already commenced, but in no case after October 1, 1990. The limited waiver bars enforcement against such use and distribution for this period, but in the event that phosphogypsum is sold or otherwise distributed but not used for this growing season, it must be disposed into stacks or mines unless further relief from the provisions of the rule has been provided by EPA.

F. Miscellaneous

EPA has determined that this action does not constitute a major rule within the meaning of Executive Order 12291 since it is not likely to result in (1) a nationwide annual effect on the economy of \$100 million or more; (2) a major increase in costs or prices for consumers, individual industries, Federal, State or local government agencies, or geographic regions; or (3) significant adverse effects on competition, employment, investment, productivity, innovation, or on the ability of United States-based enterprises to compete with foreignbased enterprises in domestic or export markets. Accordingly, a Regulatory Impact Analysis is not being prepared for this action.

This action was submitted to the Office of Management and Budget (OMB) for review as required by Executive Order 12291. Any written comments from OMB to EPA and any EPA written response to those comments are available for public inspection at Docket A-79-11.

Issued: March 22, 1990.

William K. Reilly,

Administrator.

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